



name: <unnamed>
log: C:\Users\akshayaj\Box\NHTSAnalysis\Logs\CausalNHTS.smcl
log type: smcl
opened on: 20 Sep 2024, 22:43:57

```
1 .  
2 . local year = 2017  
  
3 .  
4 .  
5 .  
6 .  
7 .  
8 .  
9 . // local outcome_vars = "num_new_vehweighted single_vehicle_mean_ageweighted multi_v  
> ehicle_mean_ageweighted max_veh_ageweighted min_milesweighted multi_vehicle_num_vehi  
> clesweight"  
10. local outcome_vars = "single_vehicle_mean_ageweighted multi_vehicle_mean_ageweighted  
> multi_vehicle_num_vehiclesweight num_new_vehweighted max_veh_ageweighted min_milesw  
> eighted num_vehiclesweighted num_newly_bought_vehweighted sum_total_milesweighted ol  
> dest_veh_travelweighted all_hh_new_vehweighted all_hh_newly_bought_vehweighted"  
  
11.  
12. local i = 0  
  
13. foreach year of num 2017 2009{  
    2.     clear  
    3.  
14.     if(`year'==2017){  
        4.         local ind_vars = "hhsizewweighted drvrcntweighted incomewweighted h  
> bppopdnweighted wrkcountweighted numadltweighted youngchildweighted ageweighted"  
        5.     }  
        6.     else{  
        7.         local ind_vars = "hhsizewweighted drvrcntweighted incomewweighted h  
> bppopdnweighted wrkcountweighted numadltweighted ageweighted"  
        8.     }  
        9.  
15.     import delimited "CleanData/NHTS`year'.csv"  
        10.     gen nosafetyweighted = 1-hassafetyweighted  
        11.     drop if treatmentyearweighted>=`year'-2) & treatmentyearweighted<=`year  
>' +2)  
        12.  
16.  
17.  
18. //     local treat_var = "hassafetyweighted"  
19.     local treat_var = "nosafetyweighted"  
    13.  
20.     gen x = 0  
    14.     gen y = 0  
    15.  
21.  
22.  
23.     local j = 0  
        16.     local out_vars = ""  
        17.  
24.     reg y x  
        18.     est sto model`i'  
        19.  
25.     foreach outcome_var in `outcome_vars'{  
        20.
```

```

26.             if("`outcome_var'"=="num_new_vehweighted" | "`outcome_var'"=="all_hh
> _new_vehweighted" | "`outcome_var'"=="all_hh_newly_bought_vehweighted"){
21.                 local floatFormat = "%4.3f"
22.             }
23.             else{
24.                 local floatFormat = "%4.2f"
25.             }
26.
27.             di "`outcome_var'"
27.             teffects psmatch (`outcome_var') (`treat_var' `ind_vars'), base
28.             di e(cmdline)
29.             ereturn list
30.
28.             local tempMean = string(round(e(b)[1,1], .001), "`floatFormat'")
                 local tempSD = string(round(sqrt(e(V)[1,1]), .001), "`floatFormat'")
> ('")
32.             local tempT = e(b)[1,1]/sqrt(e(V)[1,1])
33.             local tempP = normal(-abs(`tempT'))*2
34.
29.             if(`tempP'<0.01){
35.                 local tempStars = "****"
36.             }
37.             else if(`tempP'<0.05){
38.                 local tempStars = "***"
39.             }
40.             else if(`tempP'<0.1){
41.                 local tempStars = "**"
42.             }
43.             else{
44.                 local tempStars = ""
45.             }
46.
30.
31.
32.             local prefix = "\makecell{"
                 local suffix = "}"
47.
48.
33.             local tempEntry = "`prefix'"+"`tempMean'`tempStars' \nextline (`temp
> SD')"+"`suffix'"
49.                 est res model `i'
50.                 estadd local var `j' = "`tempEntry'"
51.                 local out_vars = "`out_vars' var `j'"
52.                 local j = `j'+1
53.
34.             }
54.
35.             local i = `i'+1
55. }
(encoding automatically selected: ISO-8859-1)
(37 vars, 51 obs)
(1 observation deleted)
note: * omitted because of collinearity.

```

Source	SS	df	MS	Number of obs	=	50
Model	0	0	.	F(0, 49)	=	0.00
Residual	0	49	0	Prob > F	=	.
				R-squared	=	.
				Adj R-squared	=	.
Total	0	49	0	Root MSE	=	0

y	Coefficient	Std. err.	t	P> t	[95% conf. interval]
x	0	(omitted)			
_cons	0	(omitted)			

single_vehicle_mean_ageweighted

Treatment-effects estimation	Number of obs	=	50
Estimator : propensity-score matching	Matches: requested	=	1
Outcome model : matching	min	=	1
Treatment model: logit	max	=	1

single_vehicle~d	Coefficient	AI robust std. err.	z	P> z	[95% conf. interval]	
ATE						
nosafetyweighted (1 vs 0)	.8149942	.2134534	3.82	0.000	.3966331	1.233355

```

teffects psmatch (single_vehicle_mean_ageweighted) (nosafetyweighted hhsizeweighted dr
> vrcontweighted incomeweighted hbppopdnweighted wrkcountweighted numadltweighted young
> childweighted ageweighted), base

```

scalars:

```

      e(N) = 50
      e(n0) = 16
      e(n1) = 34
      e(caliper) = .
      e(treated) = 1
      e(control) = 0
      e(k_nneighbor) = 1
      e(k_nnmin) = 1
      e(k_nnmax) = 1
      e(k_robust) = 2
      e(k_levels) = 2

```

macros:

```

      e(cmd) : "teffects"
      e(cmdline) : "teffects psmatch (single_vehicle_mean_ageweighted) (nosafety
> weighted hhsizew.."
      e(predict) : "teffects_p"
      e(estat_cmd) : "teffects_estat"
      e(marginsnotok) : " ALL"
      e(depvar) : "single_vehicle_mean_ageweighted"
      e(tvar) : "nosafetyweighted"
      e(subcmd) : "psmatch"
      e(tmodel) : "logit"
      e(stat) : "ate"
      e(title) : "Treatment-effects estimation"
      e(tlevels) : "0 1"
      e(psvvarlist) : "hhsizeweighted drvrcontweighted incomeweighted hbppopdnweight
> ed wrkcountweigh.."
      e(vce) : "robust"
      e(vcetype) : "AI robust"
      e(datasignaturevars) : "single_vehicle_mean_ageweighted nosafetyweighted hhsizeweigh
> ted drvrcontweigh.."
      e(datasignature) : "50:10:3049593412:2668042368"
      e(properties) : "b v"

```

matrices:

```

      e(b) : 1 x 1
      e(V) : 1 x 1
      e(Vps) : 9 x 9
      e(bps) : 1 x 9

```

functions:

```

      e(sample)
      (results model0 are active now)

```

added macro:

```

      e(var0) : "\makecell{0.82*** \nextline (0.21)}"
multi_vehicle_mean_ageweighted

```

```

Treatment-effects estimation      Number of obs      =      50
Estimator      : propensity-score matching   Matches: requested =      1
Outcome model  : matching                   min      =      1
Treatment model: logit                       max      =      1
    
```

	Coefficient	AI robust std. err.	z	P> z	[95% conf. interval]	
ATE						
nosafetyweighted (1 vs 0)	.9960611	.1924572	5.18	0.000	.6188518	1.37327

```

teffects psmatch (multi_vehicle_mean_ageweighted) (nosafetyweighted hhsizeweighted drv
> rcntweighted incomeweighted hbppopdnweighted wrkcountweighted numadltweighted youngc
> hildweighted ageweighted), base
    
```

scalars:

```

         e(N) = 50
        e(n0) = 16
        e(n1) = 34
     e(caliper) = .
     e(treated) = 1
     e(control) = 0
  e(k_nneighbor) = 1
     e(k_nnmin) = 1
     e(k_nnmax) = 1
     e(k_robust) = 2
     e(k_levels) = 2
    
```

macros:

```

         e(cmd) : "teffects"
         e(cmdline) : "teffects psmatch (multi_vehicle_mean_ageweighted) (nosafetyw
> eighted hhsizewe.."
         e(predict) : "teffects_p"
         e(estat_cmd) : "teffects_estat"
         e(marginsnotok) : " ALL"
         e(depvar) : "multi_vehicle_mean_ageweighted"
         e(tvar) : "nosafetyweighted"
         e(subcmd) : "psmatch"
         e(tmodel) : "logit"
         e(stat) : "ate"
         e(title) : "Treatment-effects estimation"
         e(tlevels) : "0 1"
         e(psvartlist) : "hhsizeweighted drvrcntweighted incomeweighted hbppopdnweight
> ed wrkcountweigh.."
         e(vce) : "robust"
         e(vcetype) : "AI robust"
         e(datasignaturevars) : "multi_vehicle_mean_ageweighted nosafetyweighted hhsizeweigh
> ed drvrcntweight.."
         e(datasignature) : "50:10:3790461411:1122515279"
         e(properties) : "b v"
    
```

matrices:

```

         e(b) : 1 x 1
         e(V) : 1 x 1
         e(Vps) : 9 x 9
         e(bps) : 1 x 9
    
```

functions:

```

         e(sample)
(results model0 are active now)
    
```

added macro:

```

         e(var1) : "\makecell{1.00*** \newline (0.19)}"
multi_vehicle_num_vehiclesweight
    
```

```
Treatment-effects estimation      Number of obs      =      50
Estimator      : propensity-score matching  Matches: requested =      1
Outcome model  : matching              min =      1
Treatment model: logit                 max =      1
```

multi_vehicle_~t	Coefficient	AI robust std. err.	z	P> z	[95% conf. interval]	
ATE nosafetyweighted (1 vs 0)	.1322746	.040532	3.26	0.001	.0528334	.2117158

```
teffects psmatch (multi_vehicle_num_vehiclesweight) (nosafetyweighted hhsizeweighted d
> rvrntweighted incomeweighted hbpopdweight wrkcountweighted numadltweighted youn
> gchildweighted ageweighted), base
```

scalars:

```
      e(N) = 50
      e(n0) = 16
      e(n1) = 34
      e(caliper) = .
      e(treated) = 1
      e(control) = 0
      e(k_nneighbor) = 1
      e(k_nnmin) = 1
      e(k_nnmax) = 1
      e(k_robust) = 2
      e(k_levels) = 2
```

macros:

```
      e(cmd) : "teffects"
      e(cmdline) : "teffects psmatch (multi_vehicle_num_vehiclesweight) (nosafet
> yweighted hhsizeweighted .."
      e(predict) : "teffects_p"
      e(estat_cmd) : "teffects_estat"
      e(marginsnotok) : " ALL"
      e(depvar) : "multi_vehicle_num_vehiclesweight"
      e(tvar) : "nosafetyweighted"
      e(subcmd) : "psmatch"
      e(tmodel) : "logit"
      e(stat) : "ate"
      e(title) : "Treatment-effects estimation"
      e(tlevels) : "0 1"
      e(psvartlist) : "hhsizeweighted drvrntweighted incomeweighted hbpopdweight
> ed wrkcountweigh.."
      e(vce) : "robust"
      e(vctype) : "AI robust"
      e(datasignaturevars) : "multi_vehicle_num_vehiclesweight nosafetyweighted hhsizeweig
> hted drvrntweigh.."
      e(datasignature) : "50:10:340582803:4015522999"
      e(properties) : "b v"
```

matrices:

```
      e(b) : 1 x 1
      e(V) : 1 x 1
      e(Vps) : 9 x 9
      e(bps) : 1 x 9
```

functions:

```
      e(sample)
(results model_0 are active now)
```

added macro:

```
      e(var2) : "\makecell{0.13*** \nextline (0.04)}"
num_new_vehweighted
```

```

Treatment-effects estimation      Number of obs      =       50
Estimator      : propensity-score matching    Matches: requested =       1
Outcome model  : matching                        min      =       1
Treatment model: logit                          max      =       1

```

num_new_vehwei~d	Coefficient	AI robust		z	P> z	[95% conf. interval]	
		std. err.					
ATE							
nosafetyweighted (1 vs 0)	-.0052657	.0026401		-1.99	0.046	-.0104401	-.0000912

```

teffects psmatch (num_new_vehweighted) (nosafetyweighted hhsizeweighted drvrcontweighte
> d incomeweighted hbppopdnweighted wrkcountweighted numadltweighted youngchildweighte
> d ageweighted), base

```

scalars:

```

          e(N) = 50
          e(n0) = 16
          e(n1) = 34
          e(caliper) = .
          e(treated) = 1
          e(control) = 0
          e(k_nneighbor) = 1
          e(k_nnmin) = 1
          e(k_nnmax) = 1
          e(k_robust) = 2
          e(k_levels) = 2

```

macros:

```

          e(cmd) : "teffects"
          e(cmdline) : "teffects psmatch (num_new_vehweighted) (nosafetyweighted hhs
> izeweighted drvr.."
          e(predict) : "teffects_p"
          e(estat_cmd) : "teffects_estat"
          e(marginsnotok) : " ALL"
          e(depvar) : "num_new_vehweighted"
          e(tvar) : "nosafetyweighted"
          e(subcmd) : "psmatch"
          e(tmodel) : "logit"
          e(stat) : "ate"
          e(title) : "Treatment-effects estimation"
          e(tlevels) : "0 1"
          e(psvarlist) : "hhsizeweighted drvrcontweighted incomeweighted hbppopdnweight
> ed wrkcountweigh.."
          e(vce) : "robust"
          e(vcetype) : "AI robust"
          e(datasignaturevars) : "num_new_vehweighted nosafetyweighted hhsizeweighted drvrcontw
> ighted incomewe.."
          e(datasignature) : "50:10:3158282587:1980312717"
          e(properties) : "b v"

```

matrices:

```

          e(b) : 1 x 1
          e(V) : 1 x 1
          e(Vps) : 9 x 9
          e(bps) : 1 x 9

```

functions:

```

          e(sample)
(results model0 are active now)

```

added macro:

```

          e(var3) : "\makecell{-0.005** \nextline (0.003)}"
max_veh_ageweighted

```

```

Treatment-effects estimation      Number of obs   =      50
Estimator      : propensity-score matching    Matches: requested =      1
Outcome model  : matching                     min   =      1
Treatment model: logit                         max   =      1

```

max_veh_agewei~d	Coefficient	AI robust std. err.	z	P> z	[95% conf. interval]	
ATE						
nosafetyweighted (1 vs 0)	1.450991	.3209027	4.52	0.000	.8220334	2.079949

```

teffects psmatch (max_veh_ageweighted) (nosafetyweighted hhsizeweighted drvrcontweighte
> d incomeweighted hbpopdnweighted wrkcountweighted numadltweighted youngchildweighte
> d ageweighted), base

```

scalars:

```

        e(N) = 50
        e(n0) = 16
        e(n1) = 34
        e(caliper) = .
        e(treated) = 1
        e(control) = 0
        e(k_nneighbor) = 1
        e(k_nnmin) = 1
        e(k_nnmax) = 1
        e(k_robust) = 2
        e(k_levels) = 2

```

macros:

```

        e(cmd) : "teffects"
        e(cmdline) : "teffects psmatch (max_veh_ageweighted) (nosafetyweighted hhs
> izeweighted drvr.."
        e(predict) : "teffects_p"
        e(estat_cmd) : "teffects_estat"
        e(marginsnotok) : " ALL"
        e(depvar) : "max_veh_ageweighted"
        e(tvar) : "nosafetyweighted"
        e(subcmd) : "psmatch"
        e(tmodel) : "logit"
        e(stat) : "ate"
        e(title) : "Treatment-effects estimation"
        e(tlevels) : "0 1"
        e(psvvarlist) : "hhsizeweighted drvrcontweighted incomeweighted hbpopdnweight
> ed wrkcountweigh.."
        e(vce) : "robust"
        e(vcetype) : "AI robust"
        e(datasignaturevars) : "max_veh_ageweighted nosafetyweighted hhsizeweighted drvrcontw
> ighted incomewe.."
        e(datasignature) : "50:10:933391600:1581828112"
        e(properties) : "b v"

```

matrices:

```

        e(b) : 1 x 1
        e(V) : 1 x 1
        e(Vps) : 9 x 9
        e(bps) : 1 x 9

```

functions:

```

        e(sample)
(results model0 are active now)

```

added macro:

```

        e(var4) : "\makecell{1.45*** \nextline (0.32)}"
min_milesweighted

```

```
Treatment-effects estimation      Number of obs      =      50
Estimator       : propensity-score matching    Matches: requested =      1
Outcome model   : matching                  min      =      1
Treatment model : logit                      max      =      1
```

min_milesweigh~d	AI robust		z	P> z	[95% conf. interval]	
Coefficient	std. err.					
ATE nosafetyweighted (1 vs 0)	-1219.546	352.579	-3.46	0.001	-1910.588	-528.5035

```
teffects psmatch (min_milesweighted) (nosafetyweighted hhsizeweightd drvrcntweightd
> incomeweightd hbppopdnweightd wrkcountweightd numadltweightd youngchildweightd
> ageweightd), base
```

scalars:

```
      e(N) = 50
      e(n0) = 16
      e(n1) = 34
      e(caliper) = .
      e(treated) = 1
      e(control) = 0
      e(k_nneighbor) = 1
      e(k_nnmin) = 1
      e(k_nnmax) = 1
      e(k_robust) = 2
      e(k_levels) = 2
```

macros:

```
      e(cmd) : "teffects"
      e(cmdline) : "teffects psmatch (min_milesweighted) (nosafetyweighted hhsiz
> eweightd drvrcn.."
      e(predict) : "teffects_p"
      e(estat_cmd) : "teffects_estat"
      e(marginsnotok) : " ALL"
      e(depvar) : "min_milesweighted"
      e(tvar) : "nosafetyweighted"
      e(subcmd) : "psmatch"
      e(tmodel) : "logit"
      e(stat) : "ate"
      e(title) : "Treatment-effects estimation"
      e(tlevels) : "0 1"
      e(psvartlist) : "hhsizeweightd drvrcntweightd incomeweightd hbppopdnweight
> ed wrkcountweigh.."
      e(vce) : "robust"
      e(vcetype) : "AI robust"
      e(datasignaturevars) : "min_milesweighted nosafetyweighted hhsizeweightd drvrcntwei
> ghted incomewei.."
      e(datasignature) : "50:10:3398581352:2939492302"
      e(properties) : "b v"
```

matrices:

```
      e(b) : 1 x 1
      e(V) : 1 x 1
      e(Vps) : 9 x 9
      e(bps) : 1 x 9
```

functions:

```
      e(sample)
(results model0 are active now)
```

added macro:

```
      e(var5) : "\makecell{-1219.55*** \nextline (352.58)}"
num_vehiclesweighted
```

```

Treatment-effects estimation      Number of obs      =      50
Estimator       : propensity-score matching  Matches: requested =      1
Outcome model   : matching                    min =      1
Treatment model : logit                        max =      1
    
```

num_vehicleswe~d	Coefficient	AI robust std. err.	z	P> z	[95% conf. interval]	
ATE						
nosafetyweighted (1 vs 0)	.1597361	.0348044	4.59	0.000	.0915207	.2279515

```

teffects psmatch (num_vehiclesweighted) (nosafetyweighted hhsizeweight
> ed incomeweight hbppopdnweighted wrkcountweighted numadltweighted youngchildweight
> ed ageweight), base
    
```

scalars:

```

          e(N)  =  50
          e(n0) = 16
          e(n1) = 34
          e(caliper) = .
          e(treated) = 1
          e(control) = 0
          e(k_nneighbor) = 1
          e(k_nnmin) = 1
          e(k_nnmax) = 1
          e(k_robust) = 2
          e(k_levels) = 2
    
```

macros:

```

          e(cmd) : "teffects"
          e(cmdline) : "teffects psmatch (num_vehiclesweighted) (nosafetyweighted hh
> sizeweight drv.."
          e(predict) : "teffects_p"
          e(estat_cmd) : "teffects_estat"
          e(marginsnotok) : " ALL"
          e(depvar) : "num_vehiclesweighted"
          e(tvar) : "nosafetyweighted"
          e(subcmd) : "psmatch"
          e(tmodel) : "logit"
          e(stat) : "ate"
          e(title) : "Treatment-effects estimation"
          e(tlevels) : "0 1"
          e(psvvarlist) : "hhsizeweight drvrntweighted incomeweight hbppopdnweight
> ed wrkcountweigh.."
          e(vce) : "robust"
          e(vcetype) : "AI robust"
          e(datasignaturevars) : "num_vehiclesweighted nosafetyweighted hhsizeweight drvrnt
> weighted incomew.."
          e(datasignature) : "50:10:107246294:1364833888"
          e(properties) : "b v"
    
```

matrices:

```

          e(b)  :  1 x 1
          e(V)  :  1 x 1
          e(Vps) :  9 x 9
          e(bps) :  1 x 9
    
```

functions:

```

          e(sample)
(results model0 are active now)
    
```

added macro:

```

          e(var6) : "\makecell{0.16*** \nextline (0.04)}"
num_newly_bought_vehweighted
    
```

```
Treatment-effects estimation      Number of obs      =      50
Estimator      : propensity-score matching    Matches: requested =      1
Outcome model  : matching                      min =      1
Treatment model: logit                          max =      1
```

num_newly_boug~d	AI robust		z	P> z	[95% conf. interval]	
	Coefficient	std. err.				
ATE						
nosafetyweighted (1 vs 0)	.0153638	.0118028	1.30	0.193	-.0077693	.0384969

```
teffects psmatch (num_newly_bought_vehweighted) (nosafetyweighted hhsizeweighted drvrc
> ntweighted incomeweighted hbppopdnweighted wrkcountweighted numadltweighted youngchi
> ldweighted ageweighted), base
```

scalars:

```

      e(N) = 50
      e(n0) = 16
      e(n1) = 34
      e(caliper) = .
      e(treated) = 1
      e(control) = 0
      e(k_nneighbor) = 1
      e(k_nnmin) = 1
      e(k_nnmax) = 1
      e(k_robust) = 2
      e(k_levels) = 2
```

macros:

```

      e(cmd) : "teffects"
      e(cmdline) : "teffects psmatch (num_newly_bought_vehweighted) (nosafetywei
> ghted hhsizewei.."
      e(predict) : "teffects_p"
      e(estat_cmd) : "teffects_estat"
      e(marginsnotok) : "ALL"
      e(depvar) : "num_newly_bought_vehweighted"
      e(tvar) : "nosafetyweighted"
      e(subcmd) : "psmatch"
      e(tmodel) : "logit"
      e(stat) : "ate"
      e(title) : "Treatment-effects estimation"
      e(tlevels) : "0 1"
      e(psvvarlist) : "hhsizeweighted drvrcntweighted incomeweighted hbppopdnweight
> ed wrkcountweigh.."
      e(vce) : "robust"
      e(vcetype) : "AI robust"
      e(datasignaturevars) : "num_newly_bought_vehweighted nosafetyweighted hhsizeweighted
> drvrcntweighted.."
      e(datasignature) : "50:10:458945202:3034338823"
      e(properties) : "b v"
```

matrices:

```

      e(b) : 1 x 1
      e(V) : 1 x 1
      e(Vps) : 9 x 9
      e(bps) : 1 x 9
```

functions:

```

      e(sample)
      (results model0 are active now)
```

added macro:

```

      e(var7) : "\makecell{0.01 \nextline (0.01)}"
      sum_total_milesweighted
```

```

Treatment-effects estimation       Number of obs   =       50
Estimator      : propensity-score matching  Matches: requested =       1
Outcome model  : matching                min =       1
Treatment model: logit                   max =       1

```

	AI robust		z	P> z	[95% conf. interval]	
sum_total_mile~d	Coefficient	std. err.				
ATE						
nosafetyweighted (1 vs 0)	-152.1085	491.951	-0.31	0.757	-1116.315	812.0978

```

teffects psmatch (sum_total_milesweighted) (nosafetyweighted hhsizeweighted drvrcontwei
> ghted incomeweighted hbpopdnweighted wrkcountweighted numadltweighted youngchildwei
> ghted ageweighted), base

```

scalars:

```

          e(N) = 50
          e(n0) = 16
          e(n1) = 34
          e(caliper) = .
          e(treated) = 1
          e(control) = 0
          e(k_nneighbor) = 1
          e(k_nnmin) = 1
          e(k_nnmax) = 1
          e(k_robust) = 2
          e(k_levels) = 2

```

macros:

```

          e(cmd) : "teffects"
          e(cmdline) : "teffects psmatch (sum_total_milesweighted) (nosafetyweighted
> hhsizeweighted .."
          e(predict) : "teffects_p"
          e(estat_cmd) : "teffects_estat"
          e(marginsnotok) : " ALL"
          e(depvar) : "sum_total_milesweighted"
          e(tvar) : "nosafetyweighted"
          e(subcmd) : "psmatch"
          e(tmodel) : "logit"
          e(stat) : "ate"
          e(title) : "Treatment-effects estimation"
          e(tlevels) : "0 1"
          e(psvrlist) : "hhsizeweighted drvrcontweighted incomeweighted hbpopdnweight
> ed wrkcountweigh.."
          e(vce) : "robust"
          e(vcetype) : "AI robust"
          e(datasignaturevars) : "sum_total_milesweighted nosafetyweighted hhsizeweighted drvr
> cntweighted inco.."
          e(datasignature) : "50:10:3720508245:941023990"
          e(properties) : "b v"

```

matrices:

```

          e(b) : 1 x 1
          e(V) : 1 x 1
          e(Vps) : 9 x 9
          e(bps) : 1 x 9

```

functions:

```

          e(sample)
(results model0 are active now)

```

added macro:

```

          e(var8) : "\makecell{-152.11 \nextline (491.95)}"
oldest_veh_travelweighted

```

```
Treatment-effects estimation          Number of obs      =           50
Estimator       : propensity-score matching      Matches: requested =           1
Outcome model   : matching                      min              =           1
Treatment model : logit                           max              =           1
```

oldest_veh_tra-d	Coefficient	AI robust	z	P> z	[95% conf. interval]	
		std. err.				
ATE						
nosafetyweighted (1 vs 0)	-1680.719	608.0839	-2.76	0.006	-2872.542	-488.8965

```
tteffects psmatch (oldest_veh_travelweighted) (nosafetyweighted hhsizeweighted drvrcntw
> eighted incomeweighted hbpopdweighted wrkcountweighted numadltweighted youngchildw
> eighted ageweighted), base
```

scalars:

```
e(N) = 50
e(n0) = 16
e(n1) = 34
e(caliper) = .
e(treated) = 1
e(control) = 0
e(k_nneighbor) = 1
e(k_nnmin) = 1
e(k_nnmax) = 1
e(k_robust) = 2
e(k_levels) = 2
```

macros:

```
e(cmd) : "teffects"
e(cmdline) : "teffects psmatch (oldest_veh_travelweighted) (nosafetyweight
> ed hhsizeweighted..)"
e(predict) : "teffects_p"
e(estat_cmd) : "teffects_estat"
e(marginsnotok) : " ALL"
e(depvar) : "oldest_veh_travelweighted"
e(tvar) : "nosafetyweighted"
e(subcmd) : "psmatch"
e(tmodel) : "logit"
e(stat) : "ate"
e(title) : "Treatment-effects estimation"
e(tlevels) : "0 1"
e(psvvarlist) : "hhsizeweighted drvrcntweighted incomeweighted hbpopdweight
> ed wrkcountweigh..)"
e(vce) : "robust"
e(vcetype) : "AI robust"
e(datasignaturevars) : "oldest_veh_travelweighted nosafetyweighted hhsizeweighted dr
> vrcntweighted in..)"
e(datasignature) : "50:10:2537986941:3483051322"
e(properties) : "b v"
```

matrices:

```
e(b) : 1 x 1
e(V) : 1 x 1
e(Vps) : 9 x 9
e(bps) : 1 x 9
```

functions:

```
e(sample)
(results model0 are active now)
```

added macro:

```
e(var9) : "\makecell{-1680.72*** \nextline (608.08)}"
```

all_hh_new_vehweighted

note: variance correction results in a negative variance estimate; ignoring the correction term

```
Treatment-effects estimation      Number of obs    =      50
Estimator      : propensity-score matching  Matches: requested =      1
Outcome model  : matching                  min            =      1
Treatment model: logit                       max            =      1
```

	Coefficient	AI robust std. err.	z	P> z	[95% conf. interval]	
ATE						
nosafetyweighted (1 vs 0)	-.0042241	.0074646	-0.57	0.571	-.0188544	.0104062

```
teffects psmatch (all_hh_new_vehweighted) (nosafetyweighted hhsizeweighted drvrntweig
> hted incomeweighted hbpopdnweighted wrkcountweighted numadltweighted youngchildweig
> hted ageweighted), base
```

scalars:

```
    e(N) = 50
    e(n0) = 16
    e(n1) = 34
    e(caliper) = .
    e(treated) = 1
    e(control) = 0
    e(k_nneighbor) = 1
    e(k_nnmin) = 1
    e(k_nnmax) = 1
    e(k_robust) = 2
    e(k_levels) = 2
```

macros:

```
    e(cmd) : "teffects"
    e(cmdline) : "teffects psmatch (all_hh_new_vehweighted) (nosafetyweighted
> hhsizeweighted d.."
    e(predict) : "teffects_p"
    e(estat_cmd) : "teffects_estat"
    e(marginsnotok) : " ALL"
    e(depvar) : "all_hh_new_vehweighted"
    e(tvar) : "nosafetyweighted"
    e(subcmd) : "psmatch"
    e(tmodel) : "logit"
    e(stat) : "ate"
    e(title) : "Treatment-effects estimation"
    e(tlevels) : "0 1"
    e(psvarlist) : "hhsizeweighted drvrntweighted incomeweighted hbpopdnweight
> ed wrkcountweigh.."
    e(vce) : "robust"
    e(vcetype) : "AI robust"
    e(datasignaturevars) : "all_hh_new_vehweighted nosafetyweighted hhsizeweighted drvr
> ntwweighted incom.."
    e(datasignature) : "50:10:299588085:118450788"
    e(properties) : "b v"
```

matrices:

```
    e(b) : 1 x 1
    e(V) : 1 x 1
    e(Vps) : 9 x 9
    e(bps) : 1 x 9
```

functions:

```
    e(sample)
(results model0 are active now)
```

added macro:

```
    e(var10) : "\makecell{-0.004 \nextline (0.007)}"
all_hh_newly_bought_vehweighted
```

```
Treatment-effects estimation           Number of obs   =           50
Estimator      : propensity-score matching Matches: requested =           1
Outcome model  : matching                     min           =           1
Treatment model: logit                         max           =           1
```

all_hh_newly_b~d	Coefficient	AI robust std. err.	z	P> z	[95% conf. interval]
ATE					
nosafetyweighted (1 vs 0)	.0177091	.0105975	1.67	0.095	-.0030617 .0384799

```
teffects psmatch (all_hh_newly_bought_vehweighted) (nosafetyweighted hhsizeweighted dr
> vrcontweighted incomeweighted hbpopdweighted wrkcountweighted numadltweighted young
> childweighted ageweighted), base
```

scalars:

```
e(N) = 50
e(n0) = 16
e(n1) = 34
e(caliper) = .
e(treated) = 1
e(control) = 0
e(k_nneighbor) = 1
e(k_nnmin) = 1
e(k_nnmax) = 1
e(k_robust) = 2
e(k_levels) = 2
```

macros:

```
e(cmd) : "teffects"
e(cmdline) : "teffects psmatch (all_hh_newly_bought_vehweighted) (nosafety
> weighted hhsizew.."
e(predict) : "teffects_p"
e(estat_cmd) : "teffects_estat"
e(marginsnotok) : " ALL"
e(depvar) : "all_hh_newly_bought_vehweighted"
e(tvar) : "nosafetyweighted"
e(subcmd) : "psmatch"
e(tmodel) : "logit"
e(stat) : "ate"
e(title) : "Treatment-effects estimation"
e(tlevels) : "0 1"
e(psvrlist) : "hhsizeweighted drvrcontweighted incomeweighted hbpopdweight
> ed wrkcountweigh.."
e(vce) : "robust"
e(vcetype) : "AI robust"
e(datasignaturevars) : "all_hh_newly_bought_vehweighted nosafetyweighted hhsizeweigh
> ted drvrcontweigh.."
e(datasignature) : "50:10:2325852941:1835557083"
e(properties) : "b v"
```

matrices:

```
e(b) : 1 x 1
e(V) : 1 x 1
e(Vps) : 9 x 9
e(bps) : 1 x 9
```

functions:

```
e(sample)
(results model0 are active now)
```

added macro:

```
e(var11) : "\makecell{0.018* \nextline (0.011)}"
(encoding automatically selected: ISO-8859-1)
(37 vars, 51 obs)
(2 observations deleted)
note: x omitted because of collinearity.
```

Source	SS	df	MS	Number of obs =	49
Model	0	0	.	F(0, 48)	0.00
Residual	0	48	0	Prob > F	.
				R-squared	.
				Adj R-squared	.
Total	0	48	0	Root MSE	0

y	Coefficient	Std. err.	t	P> t	[95% conf. interval]
x	0	(omitted)			
_cons	0	(omitted)			

single_vehicle_mean_ageweighted

```

Treatment-effects estimation          Number of obs = 49
Estimator      : propensity-score matching  Matches: requested = 1
Outcome model  : matching                 min = 1
Treatment model: logit                    max = 1
    
```

single_vehicle~d	Coefficient	AI robust	z	P> z	[95% conf. interval]	
		std. err.				
ATE						
nosafetyweighted (1 vs 0)	1.050993	.3687287	2.85	0.004	.3282977	1.773688

```

teffects psmatch (single_vehicle_mean_ageweighted) (nosafetyweighted hhsizeweighted dr
> vrcntweighted incomeweighted hbppopdnweighted wrkcountweighted numadltweighted agewe
> ighted), base
    
```

scalars:

```

e(N) = 49
e(n0) = 16
e(n1) = 33
e(caliper) = .
e(treated) = 1
e(control) = 0
e(k_nneighbor) = 1
e(k_nnmin) = 1
e(k_nnmax) = 1
e(k_robust) = 2
e(k_levels) = 2
    
```

macros:

```

e(cmd) : "teffects"
e(cmdline) : "teffects psmatch (single_vehicle_mean_ageweighted) (nosafety
> weighted hhsizew.."
e(predict) : "teffects_p"
e(estat_cmd) : "teffects_estat"
e(marginsnotok) : "_ALL"
e(depvar) : "single_vehicle_mean_ageweighted"
e(tvar) : "nosafetyweighted"
e(subcmd) : "psmatch"
e(tmodel) : "logit"
e(stat) : "ate"
e(title) : "Treatment-effects estimation"
e(tlevels) : "0 1"
e(psvarlist) : "hhsizeweighted drvrcntweighted incomeweighted hbppopdnweight
> ed wrkcountweigh.."
e(vce) : "robust"
e(vcetype) : "AI robust"
e(datasignaturevars) : "single_vehicle_mean_ageweighted nosafetyweighted hhsizeweigh
> ted drvrcntweigh.."
e(datasignature) : "49:9:51071771:228102266"
e(properties) : "b v"
    
```

```
matrices:
      e(b) : 1 x 1
      e(V) : 1 x 1
      e(Vps) : 8 x 8
      e(bps) : 1 x 8
```

```
functions:
      e(sample)
(results modell are active now)
```

```
added macro:
      e(var0) : "\makecell{1.05*** \nextline (0.37)}"
```

multi_vehicle_mean_ageweighted
note: variance correction results in a negative variance estimate; ignoring the correction term

Treatment-effects estimation	Number of obs	=	49
Estimator : propensity-score matching	Matches: requested	=	1
Outcome model : matching	min	=	1
Treatment model: logit	max	=	1

multi_vehicle_~d	Coefficient	AI robust		z	P> z	[95% conf. interval]	
		std. err.					
ATE							
nosafetyweighted (1 vs 0)	.7031077	.4610893		1.52	0.127	-.2006108	1.606826

```
teffects psmatch (multi_vehicle_mean_ageweighted) (nosafetyweighted hhsizeweighted drv
> rcntweighted incomeweighted hbppopdnweighted wrkcountweighted numadltweighted agewei
> ghted), base
```

```
scalars:
      e(N) = 49
      e(n0) = 16
      e(n1) = 33
      e(caliper) = .
      e(treated) = 1
      e(control) = 0
      e(k_nneighbor) = 1
      e(k_nnmin) = 1
      e(k_nnmax) = 1
      e(k_robust) = 2
      e(k_levels) = 2
```

```
macros:
      e(cmd) : "teffects"
      e(cmdline) : "teffects psmatch (multi_vehicle_mean_ageweighted) (nosafetyw
> eighted hhsizewe.."
      e(predict) : "teffects_p"
      e(estat_cmd) : "teffects_estat"
      e(marginsnotok) : "ALL"
      e(depvar) : "multi_vehicle_mean_ageweighted"
      e(tvar) : "nosafetyweighted"
      e(subcmd) : "psmatch"
      e(tmodel) : "logit"
      e(stat) : "ate"
      e(title) : "Treatment-effects estimation"
      e(tlevels) : "0 1"
      e(psvarlist) : "hhsizeweighted drvrcntweighted incomeweighted hbppopdnweight
> ed wrkcountweigh.."
      e(vce) : "robust"
      e(vcetype) : "AI robust"
      e(datasignaturevars) : "multi_vehicle_mean_ageweighted nosafetyweighted hhsizeweight
> ed drvrcntweight.."
      e(datasignature) : "49:9:13846297:2786468894"
      e(properties) : "b v"
```

```

matrices:
      e(b) : 1 x 1
      e(V) : 1 x 1
      e(Vps) : 8 x 8
      e(bps) : 1 x 8

```

```

functions:
      e(sample)
(results modell are active now)

```

```

added macro:
      e(var1) : "\makecell{0.70 \nextline (0.46)}"
multi_vehicle_num_vehiclesweight

```

```

Treatment-effects estimation       Number of obs       =        49
Estimator       : propensity-score matching  Matches: requested =        1
Outcome model   : matching                  min            =        1
Treatment model: logit                     max            =        1

```

multi_vehicle_~t	AI robust		z	P> z	[95% conf. interval]	
	Coefficient	std. err.				
ATE						
nosafetyweighted (1 vs 0)	.0859398	.0171366	5.01	0.000	.0523526	.119527

```

teffects psmatch (multi_vehicle_num_vehiclesweight) (nosafetyweighted hhsizeweight d
> rvrntweighted incomeweighted hbppopdnweighted wrkcountweighted numadltweighted agew
> eighted), base

```

```

scalars:
      e(N) = 49
      e(n0) = 16
      e(n1) = 33
      e(caliper) = .
      e(treated) = 1
      e(control) = 0
      e(k_nneighbor) = 1
      e(k_nnmin) = 1
      e(k_nnmax) = 1
      e(k_robust) = 2
      e(k_levels) = 2

```

```

macros:
      e(cmd) : "teffects"
      e(cmdline) : "teffects psmatch (multi_vehicle_num_vehiclesweight) (nosafet
> yweighted hhsizeweight)"
      e(predict) : "teffects_p"
      e(estat_cmd) : "teffects_estat"
      e(marginsnotok) : " ALL"
      e(depvar) : "multi_vehicle_num_vehiclesweight"
      e(tvar) : "nosafetyweighted"
      e(subcmd) : "psmatch"
      e(tmodel) : "logit"
      e(stat) : "ate"
      e(title) : "Treatment-effects estimation"
      e(tlevels) : "0 1"
      e(psvvarlist) : "hhsizeweighted drvrntweighted incomeweighted hbppopdnweight
> ed wrkcountweigh.."
      e(vce) : "robust"
      e(vcetype) : "AI robust"
      e(datasignaturevars) : "multi_vehicle_num_vehiclesweight nosafetyweighted hhsizewei
> gted drvrntweigh.."
      e(datasignature) : "49:9:3955129635:2984674408"
      e(properties) : "b v"

```

```

matrices:
      e(b) : 1 x 1
      e(V) : 1 x 1
      e(Vps) : 8 x 8
      e(bps) : 1 x 8

```

functions:

```

    e(sample)
(results modell are active now)

```

added macro:

```

    e(var2) : "\makecell{0.09*** \nextline (0.02)}"
num_new_vehweighted

```

```

Treatment-effects estimation      Number of obs      =      49
Estimator      : propensity-score matching      Matches: requested =      1
Outcome model  : matching                        min =      1
Treatment model: logit                            max =      1

```

num_new_vehwei~d	AI robust		z	P> z	[95% conf. interval]	
	Coefficient	std. err.				
ATE						
nosafetyweighted (1 vs 0)	-.0098355	.0046922	-2.10	0.036	-.0190321	-.0006389

```

teffects psmatch (num_new_vehweighted) (nosafetyweighted hhsizeweighted drvrcontweighte
> d incomeweighted hbppopdnweighted wrkcountweighted numadltweighted ageweighted), bas
> e

```

scalars:

```

    e(N) = 49
    e(n0) = 16
    e(n1) = 33
    e(caliper) = .
    e(treated) = 1
    e(control) = 0
    e(k_nneighbor) = 1
    e(k_nnmin) = 1
    e(k_nnmax) = 1
    e(k_robust) = 2
    e(k_levels) = 2

```

macros:

```

    e(cmd) : "teffects"
    e(cmdline) : "teffects psmatch (num_new_vehweighted) (nosafetyweighted hhs
> izeweighted drvr.."
    e(predict) : "teffects_p"
    e(estat_cmd) : "teffects_estat"
    e(marginsnotok) : " ALL"
    e(depvar) : "num_new_vehweighted"
    e(tvar) : "nosafetyweighted"
    e(subcmd) : "psmatch"
    e(tmodel) : "logit"
    e(stat) : "ate"
    e(title) : "Treatment-effects estimation"
    e(tlevels) : "0 1"
    e(psvarlist) : "hhsizeweighted drvrcontweighted incomeweighted hbppopdnweight
> ed wrkcountweigh.."
    e(vce) : "robust"
    e(vcetype) : "AI robust"
    e(datasignaturevars) : "num_new_vehweighted nosafetyweighted hhsizeweighted drvrcontw
> eighted incomewe.."
    e(datasignature) : "49:9:1960277135:1583456000"
    e(properties) : "b v"

```

matrices:

```

    e(b) : 1 x 1
    e(V) : 1 x 1
    e(Vps) : 8 x 8
    e(bps) : 1 x 8

```

functions:

```

    e(sample)
(results modell are active now)

```

```
added macro:
                e(var3) : "\makecell{-0.010** \nextline (0.005)}"
max_veh_ageweighted
```

```
Treatment-effects estimation      Number of obs      =      49
Estimator      : propensity-score matching    Matches: requested =      1
Outcome model   : matching                      min           =      1
Treatment model: logit                         max           =      1
```

max_veh_agewei~d	Coefficient	AI robust std. err.	z	P> z	[95% conf. interval]	
ATE						
nosafetyweighted (1 vs 0)	1.274442	.0457939	27.83	0.000	1.184687	1.364196

```
teffects psmatch (max_veh_ageweighted) (nosafetyweighted hhsizeweighted drvrcntweighte
> d incomeweighted hbppopdnweighted wrkcountweighted numadltweighted ageweighted), bas
> e
```

```
scalars:
                e(N) = 49
                e(n0) = 16
                e(n1) = 33
                e(caliper) = .
                e(treated) = 1
                e(control) = 0
                e(k_nneighbor) = 1
                e(k_nnmin) = 1
                e(k_nnmax) = 1
                e(k_robust) = 2
                e(k_levels) = 2
```

```
macros:
                e(cmd) : "teffects"
                e(cmdline) : "teffects psmatch (max_veh_ageweighted) (nosafetyweighted hhs
> izeweighted drvr.."
                e(predict) : "teffects_p"
                e(estat_cmd) : "teffects_estat"
                e(marginsnotok) : " ALL"
                e(depvar) : "max_veh_ageweighted"
                e(tvar) : "nosafetyweighted"
                e(subcmd) : "psmatch"
                e(tmodel) : "logit"
                e(stat) : "ate"
                e(title) : "Treatment-effects estimation"
                e(tlevels) : "0 1"
                e(psvrlist) : "hhsizeweighted drvrcntweighted incomeweighted hbppopdnweight
> ed wrkcountweigh.."
                e(vce) : "robust"
                e(vcetype) : "AI robust"
                e(datasignaturevars) : "max_veh_ageweighted nosafetyweighted hhsizeweighted drvrcntw
> eighted incomewe.."
                e(datasignature) : "49:9:3897577000:4210471139"
                e(properties) : "b v"
```

```
matrices:
                e(b) : 1 x 1
                e(V) : 1 x 1
                e(Vps) : 8 x 8
                e(bps) : 1 x 8
```

```
functions:
                e(sample)
(results modell are active now)
```

```
added macro:
                e(var4) : "\makecell{1.27*** \nextline (0.05)}"
min_milesweighted
```

Treatment-effects estimation Number of obs = 49
 Estimator : **propensity-score matching** Matches: requested = 1
 Outcome model : **matching** min = 1
 Treatment model: **logit** max = 1

min_milesweigh~d	Coefficient	AI robust		z	P> z	[95% conf. interval]	
		std. err.					
ATE							
nosafetyweighted (1 vs 0)	-394.4711	209.7487	-1.88	0.060	-805.571	16.62879	

teffects psmatch (min_milesweighted) (nosafetyweighted hhsizeweighted drvrntweighted
 > incomeweighted hbppopdnweighted wrkcountweighted numadltweighted ageweighted), base

scalars:

e(N) = 49
 e(n0) = 16
 e(n1) = 33
 e(caliper) = .
 e(treated) = 1
 e(control) = 0
 e(k_nneighbor) = 1
 e(k_nnmin) = 1
 e(k_nnmax) = 1
 e(k_robust) = 2
 e(k_levels) = 2

macros:

```

e(cmd) : "teffects"
e(cmdline) : "teffects psmatch (min_milesweighted) (nosafetyweighted hhsiz
> eweighted drvrntweighted)"
e(predict) : "teffects_p"
e(estat_cmd) : "teffects_estat"
e(marginsnotok) : "ALL"
e(depvar) : "min_milesweighted"
e(tvar) : "nosafetyweighted"
e(subcmd) : "psmatch"
e(tmodel) : "logit"
e(stat) : "ate"
e(title) : "Treatment-effects estimation"
e(tlevels) : "0 1"
e(psvvarlist) : "hhsizeweighted drvrntweighted incomeweighted hbppopdnweight
> ed wrkcountweigh.."
e(vce) : "robust"
e(vcetype) : "AI robust"
e(datasignaturevars) : "min_milesweighted nosafetyweighted hhsizeweighted drvrntwei
> ghted incomeweig.."
e(datasignature) : "49:9:3215404966:2707890815"
e(properties) : "b v"

```

matrices:

e(b) : 1 x 1
 e(V) : 1 x 1
 e(Vps) : 8 x 8
 e(bps) : 1 x 8

functions:

e(sample)
 (results `modell` are active now)

added macro:

e(var5) : "\makecell{-394.47* \nextline (209.75)}"
 num_vehiclesweighted

```

Treatment-effects estimation      Number of obs      =       49
Estimator       : propensity-score matching      Matches: requested =       1
Outcome model   : matching                      min             =       1
Treatment model : logit                          max             =       1

```

num_vehicleswe~d	Coefficient	AI robust std. err.	z	P> z	[95% conf. interval]	
ATE nosafetyweighted (1 vs 0)	.0964655	.0272158	3.54	0.000	.0431235	.1498074

```

teffects psmatch (num_vehiclesweighted) (nosafetyweighted hhsizeweighted drvrcntweight
> ed incomeweighted hbpopdnweighted wrkcountweighted numadltweighted ageweighted), ba
> se

```

```

scalars:

```

```

      e(N) = 49
      e(n0) = 16
      e(n1) = 33
      e(caliper) = .
      e(treated) = 1
      e(control) = 0
      e(k_nneighbor) = 1
      e(k_nnmin) = 1
      e(k_nnmax) = 1
      e(k_robust) = 2
      e(k_levels) = 2

```

```

macros:

```

```

      e(cmd) : "teffects"
      e(cmdline) : "teffects psmatch (num_vehiclesweighted) (nosafetyweighted hh
> sizeweighted drv.."
      e(predict) : "teffects_p"
      e(estat_cmd) : "teffects_estat"
      e(marginsnotok) : " ALL"
      e(depvar) : "num_vehiclesweighted"
      e(tvar) : "nosafetyweighted"
      e(subcmd) : "psmatch"
      e(tmodel) : "logit"
      e(stat) : "ate"
      e(title) : "Treatment-effects estimation"
      e(tlevels) : "0 1"
      e(psvvarlist) : "hhsizeweighted drvrcntweighted incomeweighted hbpopdnweight
> ed wrkcountweigh.."
      e(vce) : "robust"
      e(vcetype) : "AI robust"
      e(datasignaturevars) : "num_vehiclesweighted nosafetyweighted hhsizeweighted drvrcnt
> weighted incomew.."
      e(datasignature) : "49:9:468238150:500291946"
      e(properties) : "b v"

```

```

matrices:

```

```

      e(b) : 1 x 1
      e(V) : 1 x 1
      e(Vps) : 8 x 8
      e(bps) : 1 x 8

```

```

functions:

```

```

      e(sample)
(results modell are active now)

```

```

added macro:

```

```

      e(var6) : "\makecell{0.10*** \nextline (0.03)}"
num_newly_bought_vehweighted

```

```
Treatment-effects estimation      Number of obs      =      49
Estimator      : propensity-score matching   Matches: requested =      1
Outcome model  : matching                  min      =      1
Treatment model: logit                   max      =      1
```

num_newly_boug~d	Coefficient	AI robust std. err.	z	P> z	[95% conf. interval]	
ATE						
nosafetyweighted (1 vs 0)	-.0177456	.0064072	-2.77	0.006	-.0303035	-.0051877

```
teffects psmatch (num_newly_bought_vehweighted) (nosafetyweighted hhsizeweighted drivrc
> ntwweighted incomeweighted hbppopdnweighted wrkcountweighted numadltweighted ageweigh
> ted), base
```

scalars:

```
e(N) = 49
e(n0) = 16
e(n1) = 33
e(caliper) = .
e(treated) = 1
e(control) = 0
e(k_nneighbor) = 1
e(k_nnmin) = 1
e(k_nnmax) = 1
e(k_robust) = 2
e(k_levels) = 2
```

macros:

```
e(cmd) : "teffects"
e(cmdline) : "teffects psmatch (num_newly_bought_vehweighted) (nosafetywei
> ghted hhsizewei..."
e(predict) : "teffects_p"
e(estat_cmd) : "teffects_estat"
e(marginsnotok) : " ALL"
e(depvar) : "num_newly_bought_vehweighted"
e(tvar) : "nosafetyweighted"
e(subcmd) : "psmatch"
e(tmodel) : "logit"
e(stat) : "ate"
e(title) : "Treatment-effects estimation"
e(tlevels) : "0 1"
e(psvvarlist) : "hhsizeweighted drivrcntweighted incomeweighted hbppopdnweight
> ed wrkcountweigh..."
e(vce) : "robust"
e(vcetype) : "AI robust"
e(datasignaturevars) : "num_newly_bought_vehweighted nosafetyweighted hhsizeweighted
> drivrcntweighted..."
e(datasignature) : "49:9:3573417527:3729756001"
e(properties) : "b v"
```

matrices:

```
e(b) : 1 x 1
e(V) : 1 x 1
e(Vps) : 8 x 8
e(bps) : 1 x 8
```

functions:

```
e(sample)
(results modell are active now)
```

added macro:

```
e(var7) : "\makecell{-0.02*** \nextline (0.01)}"
sum_total_milesweighted
note: variance correction results in a negative variance estimate; ignoring the
correction term
```

Treatment-effects estimation Number of obs = 49
 Estimator : **propensity-score matching** Matches: requested = 1
 Outcome model : **matching** min = 1
 Treatment model: **logit** max = 1

sum_total_mile~d	Coefficient	AI robust std. err.	z	P> z	[95% conf. interval]	
ATE nosafetyweighted (1 vs 0)	415.6768	684.1917	0.61	0.543	-925.3142	1756.668

```
teffects psmatch (sum_total_milesweighted) (nosafetyweighted hhsizeweightd drvrcntwei
> ghted incomeweightd hbpopdnweightd wrkcountweightd numadltweightd ageweightd),
> base
```

scalars:

```
e(N) = 49
e(n0) = 16
e(n1) = 33
e(caliper) = .
e(treated) = 1
e(control) = 0
e(k_nneighbor) = 1
e(k_nnmin) = 1
e(k_nnmax) = 1
e(k_robust) = 2
e(k_levels) = 2
```

macros:

```
e(cmd) : "teffects"
e(cmdline) : "teffects psmatch (sum_total_milesweighted) (nosafetyweighted
> hhsizeweightd .."
e(predict) : "teffects_p"
e(estat_cmd) : "teffects_estat"
e(marginsnotok) : " ALL"
e(depvar) : "sum_total_milesweighted"
e(tvar) : "nosafetyweighted"
e(subcmd) : "psmatch"
e(tmodel) : "logit"
e(stat) : "ate"
e(title) : "Treatment-effects estimation"
e(tlevels) : "0 1"
e(psvvarlist) : "hhsizeweightd drvrcntweightd incomeweightd hbpopdnweight
> ed wrkcountweighd .."
e(vce) : "robust"
e(vcetype) : "AI robust"
e(datasignaturevars) : "sum_total_milesweighted nosafetyweighted hhsizeweightd drvrcntweightd
> cntweightd inco.."
e(datasignature) : "49:9:3659988643:956617398"
e(properties) : "b v"
```

matrices:

```
e(b) : 1 x 1
e(V) : 1 x 1
e(Vps) : 8 x 8
e(bps) : 1 x 8
```

functions:

```
e(sample)
(results modell1 are active now)
```

added macro:

```
e(var8) : "\makecell{415.68 \nextline {684.19}}"  
oldest_veh_travelweighted
```

```
Treatment-effects estimation        Number of obs       =      49
Estimator       : propensity-score matching   Matches: requested =      1
Outcome model   : matching                    min =              1
Treatment model : logit                        max =              1
```

oldest_veh_tra-d	Coefficient	AI robust std. err.	z	P> z	[95% conf. interval]	
ATE						
nosafetyweighted (1 vs 0)	-461.1934	293.1358	-1.57	0.116	-1035.729	113.3422

```
teffects psmatch (oldest_veh_travelweighted) (nosafetyweighted hhsizeweight
> eighted incomeweight hbppopdnweighted wrkcountweighted numadltweighted
> ), base
```

scalars:

```
e(N) = 49
e(n0) = 16
e(n1) = 33
e(caliper) = .
e(treated) = 1
e(control) = 0
e(k_nneighbor) = 1
e(k_nnmin) = 1
e(k_nnmax) = 1
e(k_robust) = 2
e(k_levels) = 2
```

macros:

```
e(cmd) : "teffects"
e(cmdline) : "teffects psmatch (oldest_veh_travelweighted) (nosafetyweight
> ed hhsizeweighte.."
e(predict) : "teffects_p"
e(estat_cmd) : "teffects_estat"
e(marginsnotok) : "ALL"
e(depvar) : "oldest_veh_travelweighted"
e(tvar) : "nosafetyweighted"
e(subcmd) : "psmatch"
e(tmodel) : "logit"
e(stat) : "ate"
e(title) : "Treatment-effects estimation"
e(tlevels) : "0 1"
e(psvvarlist) : "hhsizeweight drvrntweighted incomeweight hbppopdnweight
> ed wrkcountweigh.."
e(vce) : "robust"
e(vcetype) : "AI robust"
e(datasignaturevars) : "oldest_veh_travelweighted nosafetyweighted hhsizeweight dr
> vrcntweighted in.."
e(datasignature) : "49:9:3665942418:2539088885"
e(properties) : "b v"
```

matrices:

```
e(b) : 1 x 1
e(V) : 1 x 1
e(Vps) : 8 x 8
e(bps) : 1 x 8
```

functions:

```
e(sample)
(results modell are active now)
```

added macro:

```
e(var9) : "\makecell{-461.19 \nextline (293.14)}"
all_hh_new_vehweighted
```

```

Treatment-effects estimation      Number of obs    =    49
Estimator       : propensity-score matching    Matches: requested =    1
Outcome model   : matching                     min =    1
Treatment model : logit                         max =    1

```

all_hh_new_veh~d	AI robust		z	P> z	[95% conf. interval]	
	Coefficient	std. err.				
ATE						
nosafetyweighted						
(1 vs 0)	-.0084764	.0041558	-2.04	0.041	-.0166217	-.0003311

```

teffects psmatch (all_hh_new_vehweighted) (nosafetyweighted hhsizeweighted drvrntweig
> hted incomeweighted hbpopdweighted wrkcountweighted numadltweighted ageweighted),
> base

```

scalars:

```

      e(N) = 49
      e(n0) = 16
      e(n1) = 33
      e(caliper) = .
      e(treated) = 1
      e(control) = 0
      e(k_nneighbor) = 1
      e(k_nnmin) = 1
      e(k_nnmax) = 1
      e(k_robust) = 2
      e(k_levels) = 2

```

macros:

```

      e(cmd) : "teffects"
      e(cmdline) : "teffects psmatch (all_hh_new_vehweighted) (nosafetyweighted
> hhsizeweighted d.."
      e(predict) : "teffects_p"
      e(estat_cmd) : "teffects_estat"
      e(marginsnotok) : " ALL"
      e(depvar) : "all_hh_new_vehweighted"
      e(tvar) : "nosafetyweighted"
      e(subcmd) : "psmatch"
      e(tmodel) : "logit"
      e(stat) : "ate"
      e(title) : "Treatment-effects estimation"
      e(tlevels) : "0 1"
      e(psvvarlist) : "hhsizeweighted drvrntweighted incomeweighted hbpopdweight
> ed wrkcountweigh.."
      e(vce) : "robust"
      e(vctype) : "AI robust"
      e(datasignaturevars) : "all_hh_new_vehweighted nosafetyweighted hhsizeweighted drvr
> nweighted incom.."
      e(datasignature) : "49:9:1310804481:4051873444"
      e(properties) : "b v"

```

matrices:

```

      e(b) : 1 x 1
      e(V) : 1 x 1
      e(Vps) : 8 x 8
      e(bps) : 1 x 8

```

functions:

```

      e(sample)
      (results modell are active now)

```

added macro:

```

      e(var10) : "\makecell{-0.008** \nextline (0.004)}"
all_hh_newly_bought_vehweighted

```

Treatment-effects estimation Number of obs = 49
Estimator : **propensity-score matching** Matches: requested = 1
Outcome model : **matching** min = 1
Treatment model: **logit** max = 1

	Coefficient	AI robust std. err.	z	P> z	[95% conf. interval]	
ATE						
nosafetyweighted (1 vs 0)	-.0145707	.0058399	-2.50	0.013	-.0260167	-.0031247

teffects psmatch (all_hh_newly_bought_vehweighted) (nosafetyweighted hhsizeweighted dr
> vrcontweighted incomeweighted hbppopdnweighted wrkcountweighted numadltweighted agewe
> ighted), base

scalars:

e(N) = 49
e(n0) = 16
e(n1) = 33
e(caliper) = .
e(treated) = 1
e(control) = 0
e(k_nneighbor) = 1
e(k_nnmin) = 1
e(k_nnmax) = 1
e(k_robust) = 2
e(k_levels) = 2

macros:

e(cmd) : "teffects"
e(cmdline) : "teffects psmatch (all_hh_newly_bought_vehweighted) (nosafety
> weighted hhsizew.."
e(predict) : "teffects_p"
e(estat_cmd) : "teffects_estat"
e(marginsnotok) : " ALL"
e(depvar) : "all_hh_newly_bought_vehweighted"
e(tvar) : "nosafetyweighted"
e(subcmd) : "psmatch"
e(tmodel) : "logit"
e(stat) : "ate"
e(title) : "Treatment-effects estimation"
e(tlevels) : "0 1"
e(psvartlist) : "hhsizeweighted drvrcontweighted incomeweighted hbppopdnweight
> ed wrkcountweigh.."
e(vce) : "robust"
e(vcetype) : "AI robust"
e(datasignaturevars) : "all_hh_newly_bought_vehweighted nosafetyweighted hhsizeweigh
> ted drvrcontweigh.."
e(datasignature) : "49:9:1848371731:1857011780"
e(properties) : "b v"

matrices:

e(b) : 1 x 1
e(V) : 1 x 1
e(Vps) : 8 x 8
e(bps) : 1 x 8

functions:

e(sample)
(results modell are active now)

added macro:

e(var11) : "\makecell{-0.015** \nextline (0.006)}"

```

36.
37. esttab model1 model0 using "Tables/causal-NHTS.tex", drop(*) stats(`out vars', label
> s("\makecell{Single-Vehicle Household \nextline Vehicle Age}" "\makecell{Multi-Vehic
> le Household \nextline Vehicle Age}" "\makecell{Multi-Vehicle Households \nextline V
> ehicle Count}" "\makecell{Vehicle-Owning Households \nextline New Vehicles Count}" "
> \makecell{Vehicle-Owning Households \nextline Maximum Vehicle Age}" "\makecell{Vehic
> le-Owning Households \nextline Minimum Self-Reported Annual VMT}" "\makecell{All Hou
> seholds \nextline Vehicle Count}" "\makecell{Vehicle-Owning Households \nextline New
> ly-Purchased Vehicle Count}" "\makecell{All Households \nextline Self-Reported Aggre
> gate Household VMT}" "\makecell{Vehicle-Owning Households \nextline Oldest Vehicle S
> elf-Reported Annual VMT}" "\makecell{All Households \nextline New Vehicles Count}" "
> \makecell{All Households \nextline Newly-Purchased Vehicle Count}")) noster mtitles(
> "NHTS 2009" "NHTS 2017") nonumbers not nolines replace sub(\_ _) align(l|ll)
(output written to Tables/causal-NHTS.tex)

38. log close
   name: <unnamed>
   log: C:\Users\akshayaj\Box\NHTSAnalysis\Logs\CausalNHTS.smcl
   log type: smcl
   closed on: 20 Sep 2024, 22:44:10

```
